



Format No: CP/TP/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-01-06-19 Date: 06-09-19
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Bangla School Opposite Road Jagadish House Road and Surrounding Areas in Ward No-01 of Yelahanka Sub Division.
Agency : Sri. Satish.S No:597, Down Bazaar Road, Yelahanka Old Town Bangalore-560064
Customer's Reference : EE(YNK.D)E-PMT-19/W.O/104/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-09-19
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 04-09-19
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	—
2	Finess by Air permeability method (m ² /kg, Min)	284.6	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	29%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	3mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN

Authorized Signatory
Quality ManagerPage 1/1
****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-06-19 **Date:** 06-09-19

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP,

Address : Bangalore.

Project Name : Yelahanka Sub Division, BBMP, Bangalore.

Agency : Improvements to Roads and Drains at Bangla School Opposite Road Jagadish House Road and Surrounding Areas in Ward No-01 of Yelahanka Sub Division.

Customer's Reference : Sri. Satish.S No:597, Down Bazaar Road, Yelahanka Old Town Bangalore-560064

Source of Sample : EE(YNK.D)E-PMT-19/W.O/104/2018-19

Sample condition : Sample supplied by Agency

Date of Receipt : Satisfactory

Sample Type : 03-09-19

Reference to BIS codes : 40mm down size coarse aggregate

IS: 383:2016 (Specification for Coarse and fine Aggregates)

IS: 2386 :1963(Part - 1,3,4) RA2011

IS 2386 Part 1: Particle Size and Shape

IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

IS 2386 Part 4: Mechanical Properties

Date of test : 03-09-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken		15000 grams				
Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7264	7479	49.9	50.1	30-70
4	10 mm	4342	11821	78.8	21.2	10-35
5	4.75 mm	2675	14496	96.6	3.4	0-5
6	Pan	504	15000	100.0	0	---



TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/10/2019

Lab ID : CP-2020-01-06-19
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Bangla School Opposite Road Jagadish House Road and Surrounding Areas in Ward No-01 of Yelahanka Sub Division.
Agency : Sri. Satish.S No:597, Down Bazaar Road, Yelahanka Old Town Bangalore-560064
Customer's Reference : EE(YNK.D)E-PMT-19/W.O/104/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 14-09-19
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M30	12/09/2019	10/10/2019	150.18 X 151.24 X 149.24	22714	8.188	762.3	33.6	33.1
2	Cement Concrete Pavement	M30	12/09/2019	10/10/2019	150.22 X 150.90 X 150.38	22668	8.211	730.7	32.2	
3	Cement Concrete Pavement	M30	12/09/2019	10/10/2019	149.56 X 150.64 X 149.52	22529	8.174	755.8	33.5	

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